

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0012	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Solano County Public Works Mellin Levee	M *	0.59						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	1.69%				
Trim / Thin Trees		0.01	0.04	6.75%				
Encroachments					0.69			
<i>LMA Totals:</i>	0.01	0.01	0.05	8.43% *	0.69	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Solano County Public Works Mellin Levee

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			M	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Solano County Public Works Mellin Levee

Waterway			Bank	Unit Miles
Unit No. 01 Mellin Levee			Right	0.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/08/2015 - 04/08/2015		11/03/2015 - 11/03/2015	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Thomas Pate Solano County Water Agency		Thomas Pate Solano County Water Agency	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	6		
LM End	0.00	Issue Type +	Ma	Location *	N/A		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Operations & Maintenance Manuals				°		°
					°		°
DWR ID	DWR_NA0012_01_s _ 2013_6						
Action/Comments							
Inspector Comments: LMA has a copy of the O & M Manuals on file at the office.							

No Photos

LM Start	0.00	Rating **	A	Issue No.	7
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_NA0012_01_s _ 2013_7				
Action/Comments					
Inspector Comments: LMA has an adequate supply of flood fight supplies on hand.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	9	
LM End	0.00	Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_NA0012_01_s _ 2013_9					
Action/Comments						
Inspector Comments: Latest training Oct. 2014						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	1
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.174051 °	38.174051 °
				-121.674220 °	-121.674221 °
DWR ID	DWR_NA0012_01_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Control Arundo on waterside slope at the entrance to the levee.					

Photo 1 of 1 : FA_2015_NA0012_258_1_20150914_00001.jpg



Looking west at arundo on waterside slope at entrance to unit.

LM Start	0.01	Rating **	M	Issue No.	3
LM End	0.49	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.174167 °	38.178960 °
				-121.674312 °	-121.680600 °
DWR ID	DWR_NA0012_01_s_2012_3				
Action/Comments					
Fence					

Photo 1 of 1 : FA_2015_NA0012_258_3_20150914_00002.jpg



Looking west at fence on waterside shoulder.

LM Start	0.10	Rating **	M	Issue No.	4
LM End	0.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.175115 °	38.176805 °
				-121.675463 °	-121.677893 °
DWR ID	DWR_NA0012_01_s_2012_4				
Action/Comments					
Fence					

Photo 1 of 1 : FA_2015_NA0012_258_4_20150914_00003.jpg



Looking southeast at fence on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.15	Rating **	A/W	Issue No.	10
LM End	0.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.175627 °	38.180044 °
				-121.676185 °	-121.681978 °
DWR ID	DWR_NA0012_01_s _ 2015_10				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Add appropriate gravel or road base.					

Photo 1 of 3 : FA_2015_NA0012_258_10_20151106_00009.jpg



Looking east at levee crown fall 2015.

LM Start	0.15	Rating **	A/W	Issue No.	10 (cont)
LM End	0.59	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : FA_2015_NA0012_258_10_20150914_00006.jpg



Looking west at vegetation on levee crown at LM 0.00 to 0.10

LM Start	0.15	Rating **	A/W	Issue No.	10 (cont)
LM End	0.59	Issue Type +	Ma	Location *	CR

Photo 3 of 3 : FA_2015_NA0012_258_10_20150914_00007.jpg



Looking west at vegetation on levee crown at LM 0.28 to 0.59

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.57	Rating **	M	Issue No.	5
LM End	0.59	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179783 °	38.180027 °
				-121.681648 °	-121.681978 °
DWR ID	DWR_NA0012_01_s _ 2012_5				
Action/Comments					
Fence					
Inspector Comments: Animal corral.					

Photo 1 of 2 : FA_2015_NA0012_258_5_20150914_00004.jpg



Looking east at animal corral on waterside toe.

LM Start	0.57	Rating **	M	Issue No.	5 (cont)
LM End	0.59	Issue Type +	En	Location *	WS

Photo 2 of 2 : FA_2015_NA0012_258_5_20150914_00005.jpg



Looking west at animal corral on waterside toe.

LM Start	0.58	Rating **	M	Issue No.	2
LM End	0.58	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.179951 °	38.179951 °
				-121.681854 °	-121.681854 °
DWR ID	DWR_NA0012_01_f _ 2015_2				
Action/Comments					
Tank Inspector Comments: Water tank for watering cattle stored at waterward toe.					

Photo 1 of 1 : FA_2015_NA0012_258_2_20151106_00010.jpg



Looking north at water tank stored at waterward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Solano County Public Works Mellin Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Mellin Levee	Right	0.59	11/03/2015 11/03/2015	Richard Willoughby

LM Start	0.58	Rating **	U	Issue No.	12
LM End	0.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.179966 °	38.179966 °
				-121.681872 °	-121.681872 °
DWR ID	DWR_NA0012_01_s _ 2015_12				
Action/Comments					
Trim trees to at least five feet above ground level.					

LM Start	0.58	Rating **	U	Issue No.	12 (cont)
LM End	0.58	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2015_NA0012_258_12_20151106_00011.jpg



Looking at untrimmed tree on landward slope fall 2015.

Photo 2 of 2 : FA_2015_NA0012_258_12_20150914_00008.jpg



Looking east at untrimmed tree on landward slope spring 2015

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--	--	---	--	---